CLAIMS:

1. A magnetizable device which comprises a magnetic layer composed of domain-separated, ferromagnetic particles each of which has a largest dimension no greater than 100nm.

2. Magnetic recording medium which includes a magnetizable layer thereon, wherein said magnetizable layer comprises a plurality of ferromagnetic particles each having a largest dimension no greater than 100nm, and each of which particles represents a separate ferromagnetic domain.

3. Magnetic recording medium according to claim 2, wherein the distance between adjacent ferromagnetic domains is at least 2nm.

4. Magnetic recording medium according to claim 2 or 3, wherein the distance between adjacent ferromagnetic domains is no greater than 10nm.

5. Magnetic recording medium according to claim 1, 2, 3 or 4, wherein each ferromagnetic particle is encased within an organic macromolecule.

6. Magnetic recording medium according to claim 5, wherein each ferromagnetic particle is encased within the cavity or opening of a protein macromolecule.

7. Magnetic recording medium according to claim 6, wherein each ferri- or ferromagnetic particle is encased within an apoferritin protein.

8. A magnetic composition comprising a plurality of ferromagnetic particles each of which is bound to an organic macromolecule, and each of which ferromagnetic particles has a largest dimension no greater than 100nm.